

in accordance with 1907/2006/EG, last amended 453/2010/EU

1. Identification of the substance / preparation and of the company / undertaking

1.1 Product identifier	:	Biofuel
1.2. Relevant identified uses of the substance or mixture and uses advised against	:	fuel, propellant
1.3. Details of the supplier of the safety data sheet	:	
Manufacturer	:	Bunge Deutschland GmbH
Street	:	Bonadiesstraße 3-5
Postcode / town	:	D-68169 Mannheim
Telephone	:	(+49) 621 3704-0
Telefax	:	(+49) 621 3704-109
Person to contact for further information	:	
Quality	:	(+49) 621 3704-300
Technique	:	(+49) 621 3704-237
e-mail	:	bea.customeradvise.man@bunge.com
1.4 Emergency telephone number	:	(+49) 621 3704 999
Poison information center	:	(+49) 551 19240

2. Hazards identification

2.1. Classifications of the substance or mixture	:	not applicable
2.2. additional hazard information	:	none, if used as directed
2.3. other hazards	:	no specific risks, the substance is not classified as flammable and not classified according to directive 1227/2008/EC

3. Composition / information on components

3.1. Chemical characterization	:	C16 - C18 Methyleneesters
CAS - Nr.	:	68990-52-3
EC / EINECS	:	273-606-8
REACH Referenznummer	:	01-2119471664-32-0027
3.2. Hazardous ingredients	:	Ingredients are not subject to labelling. There are no known substances according to EC Directive 1272/2008/EC which reach or exceed the lowest concentration value.

4. First aid measures

4.1. General information	:	If symptoms occur, seek medical attention. In case of unconsciousness, do not administer liquid through the mouth. Remove contaminated clothing.
4.2. Inhalation	:	Supply fresh air, consult a doctor in case of discomfort. For Unconsciousness Storage and transport in stable lateral position.
4.3. Skin contact	:	Generally the product does not irritate the skin, rinse with running water, use soap if necessary.
4.4. Eye contact	:	Rinse under running water (approx. 10-15 minutes).
4.5. Ingestion	:	Rinse mouth, do not induce vomiting, seek medical advice immediately.

5. Firefighting measures

5.1. Suitable extinguishing media	:	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or foam Coordinate fire-fighting measures with the environment.
5.2. Special of the substance or mixture outgoing hazards	:	Complete combustion leads to carbon oxides and water. Carbon monoxide (CO) may be released during heating or in the event of fire.
5.3. Flue gases	:	vapours of the product can be released
5.4. Special protective equipment	:	if the above pollutants are formed, use self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	:	All persons whose presence is not required to leave the affected area. Close leaks without taking any personal risk
6.2. protective gear	:	Check with the manufacturer of protective equipment whether the selected protection is sufficient.
6.3. Environmental protection measures	:	Do not empty into drains or water bodies. In the event of intrusion into water bodies or sewers, the responsible Notify the authorities.
6.4. Methods of cleaning / absorption	:	With liquid-binding material (sand, diatomaceous earth, acid binders, Universal binders). The included product in Transfer marked and lockable containers.
6.5. Additional information	:	No dangerous substances are released

7. Handling and storage

7.1. Precautions for safe handling Instructions for safe handling	:	beyond the measure of the usual personal hygiene are no longer necessary.
Notes on fire and explosion protection	:	No special measures required.
7.2. storage Requirements for storage rooms and containers	:	VCI storage class 10, no special requirements
Information on storage in one common storage Facility	:	not required
Further information on storage conditions	:	Keep container closed, away from heat and direct sunlight. Protect from sunlight.

8. Exposure controls / personal protection

8.1. Components with limit values to be monitored for a work center	:	The product contains no relevant quantities of substances with Workplace-related limit values to be monitored
8.2. Personal protective equipment General protection and hygiene measures	:	Check with the manufacturer of protective equipment whether the selected protection is sufficient.
Respiratory protection	:	not required
hand guard	:	the hand protection material must be impermeable and resistant to the product / substance / preparation. The selection of the glove material taking into account breakthrough times, permeation rates and degradation.
Penetration time of the glove material	:	The exact breakthrough time must be obtained from the manufacturer of the protective gloves and must be observed.
eye protection	:	When decanting, protective goggles are recommended
personal protective equipment	:	protective work wear



9. Physical and chemical properties

9.1. Condition / Colour	:	liquid, light yellow to brownish
9.2. Change of state	:	Melting point / Melting range: - 10 °C Boiling point / boiling range approx. 300 °C
9.3. flashing point	:	>150 °C (DIN 3679)
9.4. Hazard of explosion	:	Product is not explosive
9.5. ignition temperature	:	400°C
9.6. density at 20°C	:	0,875 – 0,885 g/cm ³
9.7. Solubility in / Miscibility with water	:	not miscible or hardly miscible
9.8. pH value	:	inapplicable
9.9. Viscosity	:	kinematic at 40 °C: 4 mm ² /s (DIN 51562) at 100 °C: 1.7 mm ² /s:

10. Stability and reactivity

10.1. Thermal decomposition / to avoid terms	:	no decomposition if used as intended
10.2. Materials to avoid	:	powerful oxide
10.3. Dangerous reactions	:	No dangerous reactions known
10.4. Hazardous decomposition products	:	no hazardous decomposition products known

11. Toxicological information

11.1. Acute toxicity relevant for classification LD / LC50 values	:	Rapsmethylester Oral LD50 >2000 mg/kg (rat)
11.2. Primary irritant effect on the skin	:	No irritant effect
on the eye	:	No irritant effect, can cause irritation of the eye. However, under normal circumstances, the eye tissue is not damaged
11.3. Sensitization	:	no sensitizing effect known
11.4. Additional toxic information	:	According to our experience and the information available to us, the product does not cause any harmful effects if handled and used properly. The substance does not have to be labelled according to the EC lists in the latest valid version.

12. Ecological information

12.1. Ecotoxic effects Aquatic toxicity	:	Fish: LC50 > 100 mg/l (chronic)
12.2. General information	:	Water hazard class 1 (list classification): weak hazardous to water. The product is easily biodegradable.
	:	Do not add undiluted or in larger quantities to the allow groundwater to enter water bodies or the sewage system.



13. Disposal consideration

13.1 Product reference	:	Hand smaller quantities over to the hazardous waste collector or to a problem substance collection point. The choice of the disposal method depends on the composition of the of the product at the time of disposal and the local disposal possibilities
13.2. waste code number	:	For this product no waste code number according to European Waste Catalogue (EWC), as only the purpose by the consumer allows an assignment. The waste code number has to be agreed with the disposal company / manufacturer / the authority.
13.3. Uncleaned packagings : Reference	:	Disposal in accordance with official regulations

14. Transport information

No dangerous goods according to RID/ADR, GGVS / GGVE, ADN, IMDG, ICAO / IATA-DGR: The product is not subject to the regulations about the transport of dangerous goods.

15. Regulatory information

15.1 Labelling according to EWG guidelines	:	The usual precautions when handling chemicals must be observed. The product is in accordance with EC directives / GefStoffV not subject to labelling.
15.2. Code letter and indication of danger of the product	:	not subject to labeling
Trade name	:	Biodiesel (FAME quality)
National regulations: Classification according to AwSV water hazard class	:	WGK 1 (list classification) slightly hazardous to water

16. Other information

: The information is based on the current state of our knowledge, however, they do not represent a guarantee of product properties and do not establish a contractual legal relationship.